



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/756,416	01/14/2004	Takashi Hashimoto	118336	4557
25944	7590	06/15/2005	EXAMINER	
OLIFF & BERRIDGE, PLC P.O. BOX 19928 ALEXANDRIA, VA 22320			LOKE, STEVEN HO YIN	
			ART UNIT	PAPER NUMBER
			2811	

DATE MAILED: 06/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

4A

Office Action Summary	Application No. 10/756,416	Applicant(s) HASHIMOTO ET AL.	
	Examiner Steven Loke	Art Unit 2811	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 March 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
 4a) Of the above claim(s) 12-20 is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-4 is/are allowed.
- 6) ☒ Claim(s) 5-11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>1/14/04</u> . | 6) <input type="checkbox"/> Other: _____ |

1. Applicant's election with traverse of claims 1-11 in the reply filed on 3/25/05 is acknowledged. The traversal is on the ground(s) that the subject matter of all claims 1-20 is sufficiently related that a thorough search for the subject matter of any one Group of claims would encompass a search for the subject matter of the remaining claims. This is not found persuasive because both groups are directed to different search areas and different examination methods. Both groups are independent and distinct from each other. The search and examination of the entire application could be made serious burden to the examiner.

The requirement is still deemed proper and is therefore made FINAL.

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: "37" (page 46, line 18). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

4. Claims 5-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 5, lines 2-3, the phrase "said conductive adhesive is provided between the elements and the final substrate in liquid form" is vague and indefinite. Fig. 11 discloses the liquid form conductive adhesive [32] is formed on each of the electrodes [15]. It is believed that the phrase should rewrite as "said conductive adhesive is provided between each of the elements and the final substrate in liquid form".

Claim 7, lines 2-3, the phrase "the position where the conductive adhesive for the elements or for the final substrate is arranged" is vague and indefinite. Fig. 11 discloses the liquid form conductive adhesive [32] is formed on each of the electrodes [15]. It is believed that the phrase should rewrite as "the position where the conductive adhesive for each of the elements or for the final substrate is arranged".

It is unclear which substrate is subjected to a lyophilic treatment and a liquid repellent treatment in claim 7. Is the final substrate subjected to a lyophilic treatment and a liquid repellent treatment?

It is unclear where is the partition being formed in claim 8. Fig. 14 discloses the partition [34] is formed on the electrode [15]. Is the partition formed on the conductive section [15] in claim 8?

Claim 8, lines 2-3, the phrase "the position where the conductive adhesive for the elements or for the final substrate is arranged" is vague and indefinite. Fig. 14 discloses the liquid form conductive adhesive [32] is formed on each of the electrodes [15]. It is

believed that the phrase should rewrite as “the position where the conductive adhesive for each of the elements or for the final substrate is arranged”.

It is unclear where is the concavity being formed in claim 9. Fig. 15 discloses the concavity [35] is formed in the final substrate [14]. Is the concavity formed in the final substrate [14] in claim 9?

Claim 9, lines 2-3, the phrase “a concavity is formed at a junction position of the elements with the final substrate” is vague and indefinite. Fig. 15 discloses a concavity [35] is formed in the final substrate [14] at a junction position of each of the elements with the final substrate. It is believed that the phrase should rewrite as “a concavity is formed in the final substrate at a junction position of each of the elements with the final substrate”.

Claim 10, lines 2-3, the phrase “conductive sections for conducting with the terminal sections of said elements are provided beforehand in said concavity” is vague and indefinite. Fig. 15 discloses each of the conductive sections [15] for conducting with the terminal sections of the corresponding elements is provided in said concavity [35] before the conductive adhesive is selectively arranged in the concavity. It is believed that the phrase should rewrite as “each of the conductive sections for conducting with the terminal sections of the corresponding elements is provided in said concavity before the conductive adhesive is selectively arranged in the concavity”.

Claim 11, lines 2-3, the phrase “the conductive adhesive to be formed on the terminal sections is formed in a condition of independence for each of the respective terminal sections, and between the independent conductive adhesives is insulated” is

vague and indefinite. Fig. 17 discloses the conductive adhesive [36] to be formed on each of the terminal sections is formed in a condition of independence for each of the respective terminal sections, and the conductive adhesive [36] on each of terminal sections is insulated from each other. It is believed that the phrase should rewrite as "the conductive adhesive to be formed on each of the terminal sections is formed in a condition of independence for each of the respective terminal sections, and the conductive adhesive on each of terminal sections is insulated from each other".

5. Claims 1-4 are allowed.

6. The following is a statement of reasons for the indication of allowable subject matter: The major difference in the claims not found in the prior art of record is a process for adhering the surface where the terminal sections of said elements to be transferred on the original substrate are exposed, via conductive adhesive, to a surface of the final substrate on a side where conductive sections for conducting with the terminal sections of said elements are provided.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Loke whose telephone number is (571) 272-1657. The examiner can normally be reached on 8:20 am to 5:50 pm.

Art Unit: 2811

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

sl
June 12, 2005

Steven Loke
Primary Examiner
